

**FCC ID: 2BSCL-2159****Portable device**

According to §15.247(e)(i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

According to KDB447498 D01 General RF Exposure Guidance V06

The 1-g SAR and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq$  50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where:}$

- $f(\text{GHz})$  is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

When the minimum test separation distance is  $<$  5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

Modulation	Channel Freq. (GHz)	Conducted power (dBm)	Conducted power (mW)	Tune-up power (dBm)	Max tune-up power (dBm)	Max tune-up power (mW)	Distance (mm)	Result calculation	SAR Exclusion threshold	SAR test exclusion
GFSK	2.405	6.39	4.36	6 $\pm$ 1	7.00	5.01	<5	1.55449	3.00	YES
	2.44	3.82	2.41	3 $\pm$ 1	4.00	2.51	<5	0.78474	3.00	YES
	2.475	3.53	2.25	3 $\pm$ 1	4.00	2.51	<5	0.79035	3.00	YES

Note:  $2405\text{MHz(dBm)} = \text{dbuv/m} - 95.2 = 103.59 - 95.2 = 8.39\text{dBm(EIRP)}$ , so the conduct peak power=8.39-2=6.39dBm

$2440\text{MHz(dBm)} = \text{dbuv/m} - 95.2 = 101.02 - 95.2 = 5.82\text{dBm(EIRP)}$ , so the conduct peak power=5.82-2=3.82dBm

$2475\text{MHz(dBm)} = \text{dbuv/m} - 95.2 = 100.73 - 95.2 = 3.53\text{dBm(EIRP)}$ , so the conduct peak power=3.53-2=3.53dBm

**Conclusion:**

For the max result:  $1.55449 \leq$  FCC Limit 3.0 for 1g SAR.